Kansas Immunization Registry (KSWebIZ) Current Status and Future Goals

Kansas Immunization Program
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Topeka, KS

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Kansas Department of Health & Environment

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Vision & Mission Statements

- Vision:
  - Any authorized user anytime and anywhere in the state of Kansas can immediately obtain comprehensive immunization information on any Kansas resident.

- Mission:
  - To protect children and adults in Kansas from vaccine preventable diseases by providing a fully functional, effective and accessible web-based immunization information system that:
    1. Consolidates immunization information from all immunization providers in the state (both public and private).
    2. Provides secure access to all authorized users at any time.
    3. Ensures high levels of data quality (timeliness, completeness and accuracy).
    4. Provides full range of reports to support immunization practices and overall delivery of health care services.
   5. Maintains compliance with the twelve NVAC approved functional standards for immunization registries.

Overall Goal of Project

- KSWebIZ will maintain a high level of data quality and compliance with the NVAC approved functional standards for immunization registries and will contain a record with two or more immunizations for 95% of Kansas children less than six years of age by December 31, 2011.
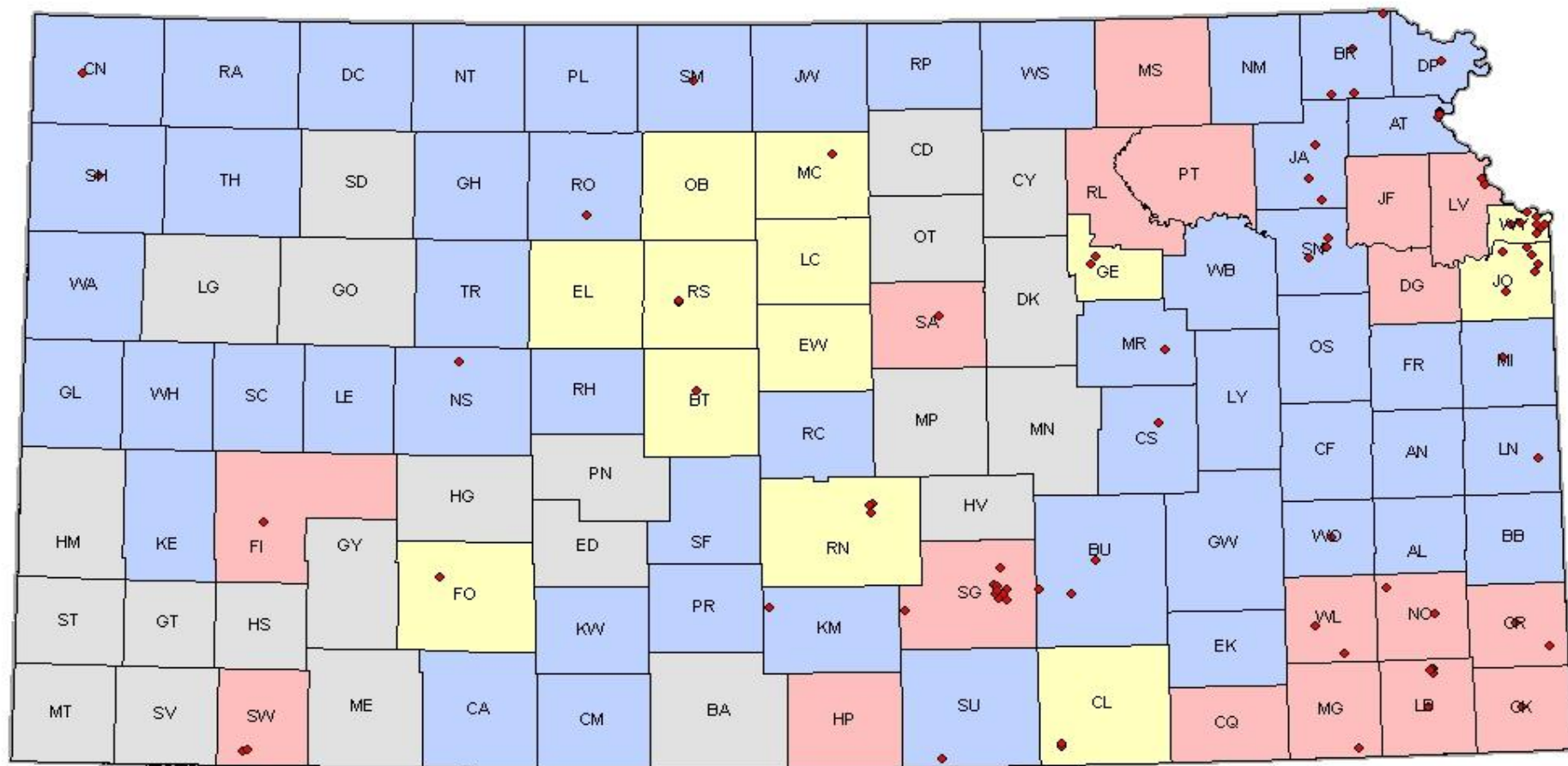
June 2007 - Map
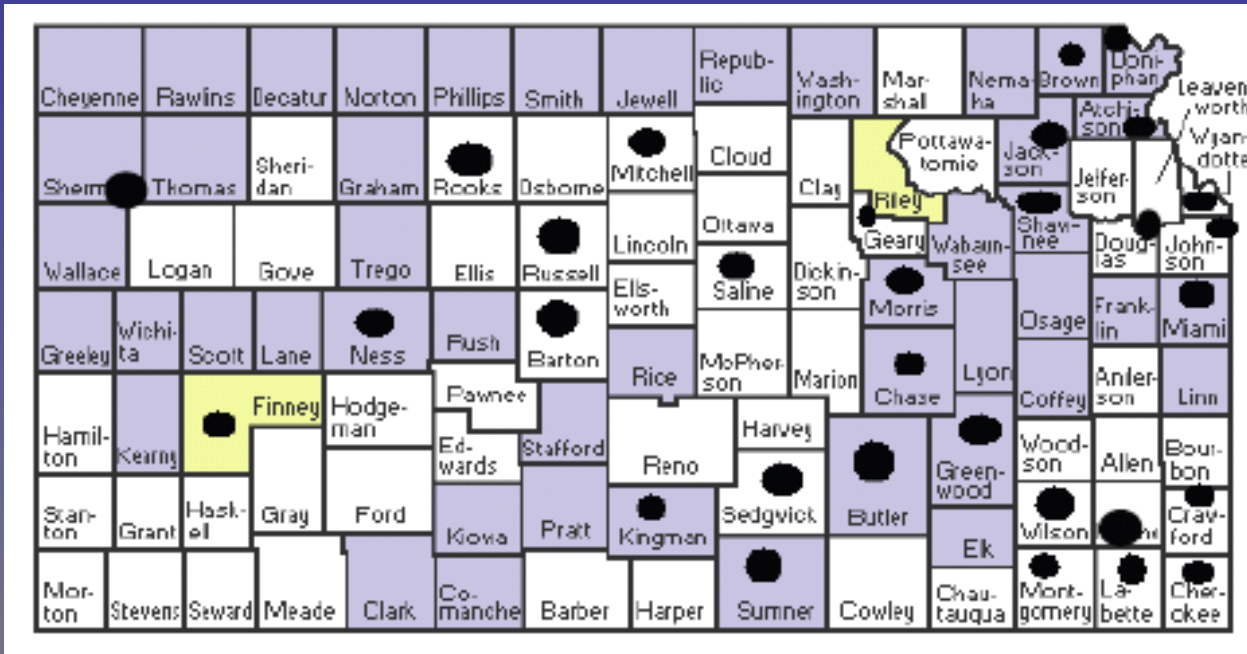
126 providers live
47 Local Health Departments
79 Private Providers   628 Users

Live Provider Sites as of August 22, 2008

Private provider live on KSWebIZ

County live on KSWebIZ (direct entry)
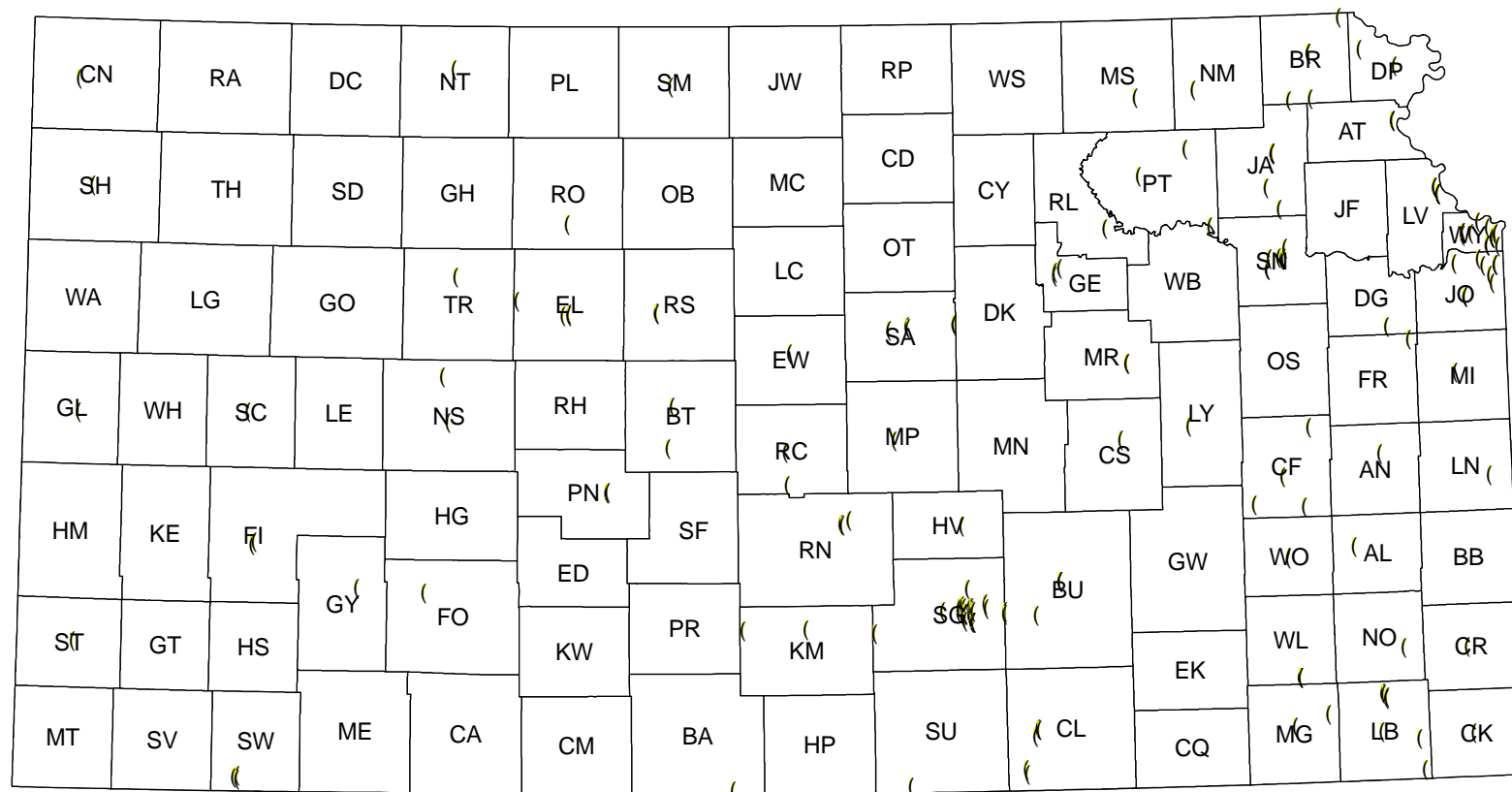
County live thru HL7*

Counties currently testing interface

Counties entering test phase December 2009

*HL7 is a standard CDC interface format that communicates directly with KSWebIZ

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KSWebIZ Providers as of August 2011

Legend:
- ● Private Provider Live on KSWebIZ (yellow)
- ■ Direct Entry (red)
- ■ KIPHS (blue)
- ■ Insight (green)

Statistics:
283 Total Providers Live
- •178 Private Providers (4 Interface, 31 Non-VFC)
- •105 Local Health Departments
    - •53 Direct Entry, 52 Interface

KSWebIZ Schools Live as of August 2011
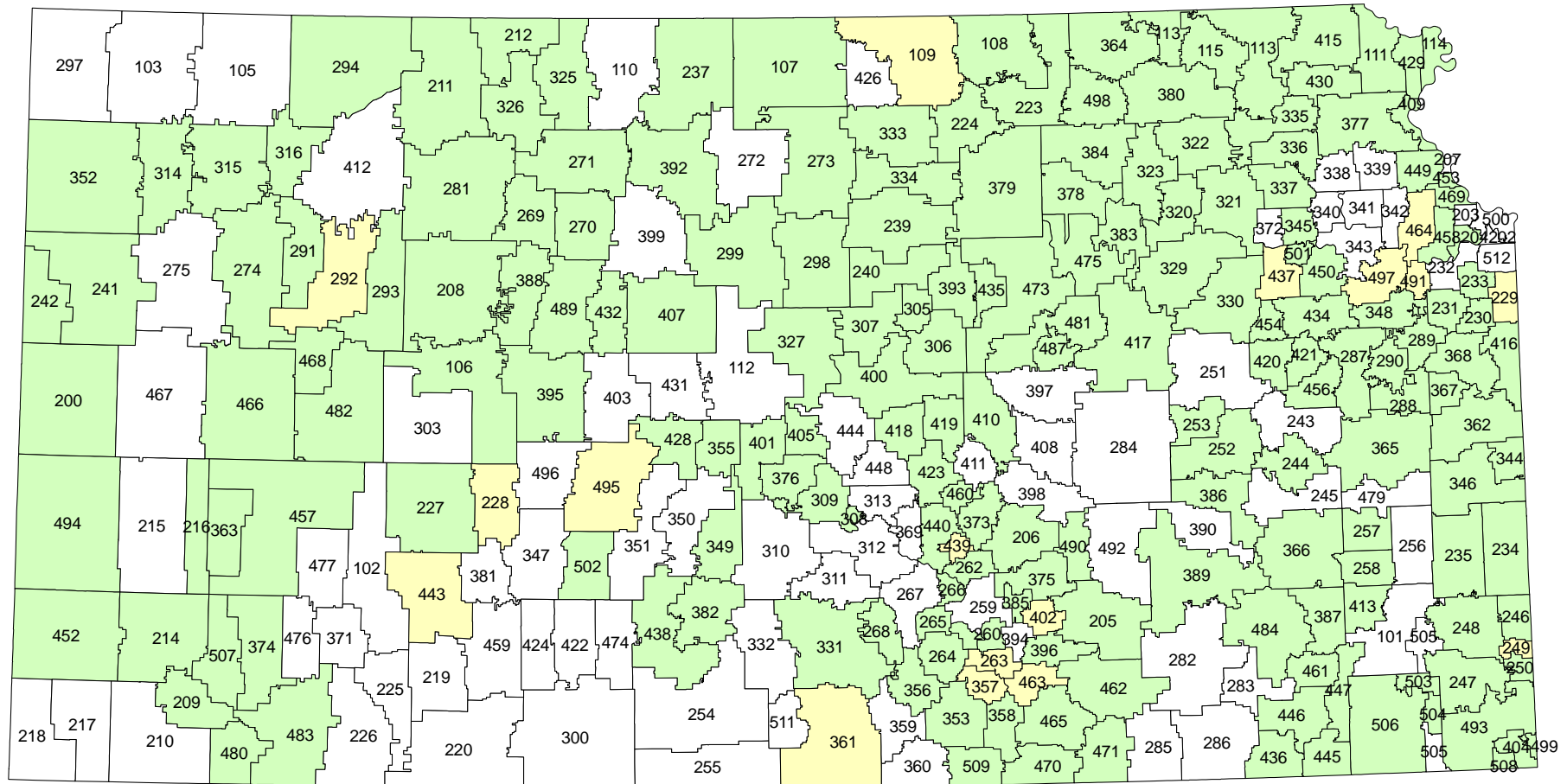
Live

In Training

No Status

Statistics:
School Districts Live: 242
Total Number of Schools Live: 872
Total Number of School Personnel Live: 484

Source: KDHE Immunization Program: 8/29/2011

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Provider Site Enrollment Status
(as of 8/2011)

- 283 total provider sites
  - 178 private sites
    - 4 interface
    - 31 non-VFC
  - 105 public sites (100%)
    - 53 enrolled as direct entry sites
    - 52 enrolled through interface

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Current Statistics
(as of 8/2011)

- Total number of patients = 1,848,220
  - Up 5.1% from 2010
- Total number of vaccinations = 15,665,857
  - Up 9.8% from 2010
    - # of historical vaccinations = 13,039,540
      - Up 3.1% from 2010
    - # of administered vaccinations = 2,626,317
      - Up 61.4% from 2010

Data Sources: Created Patients

29%

33%

14%

15%

7%

2%   0%

DE HL VR MM SN RX FF
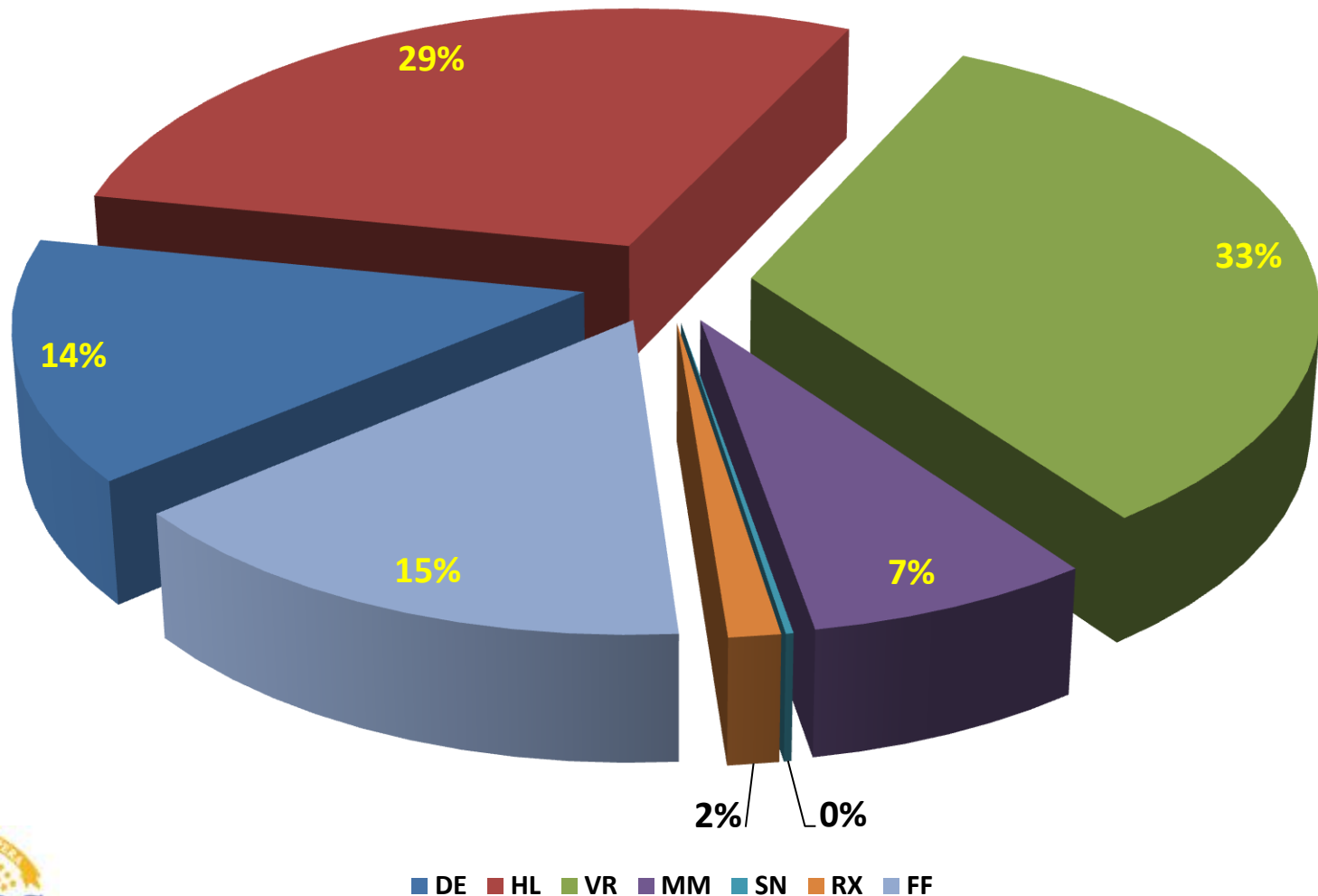
Data Sources: Updated Patients

Legend: DE, HL, VR, MM, SN, RX, FF

42% — DE
34% — HL
8% — VR
5% — MM
1% — SN
3% — RX
7% — FF

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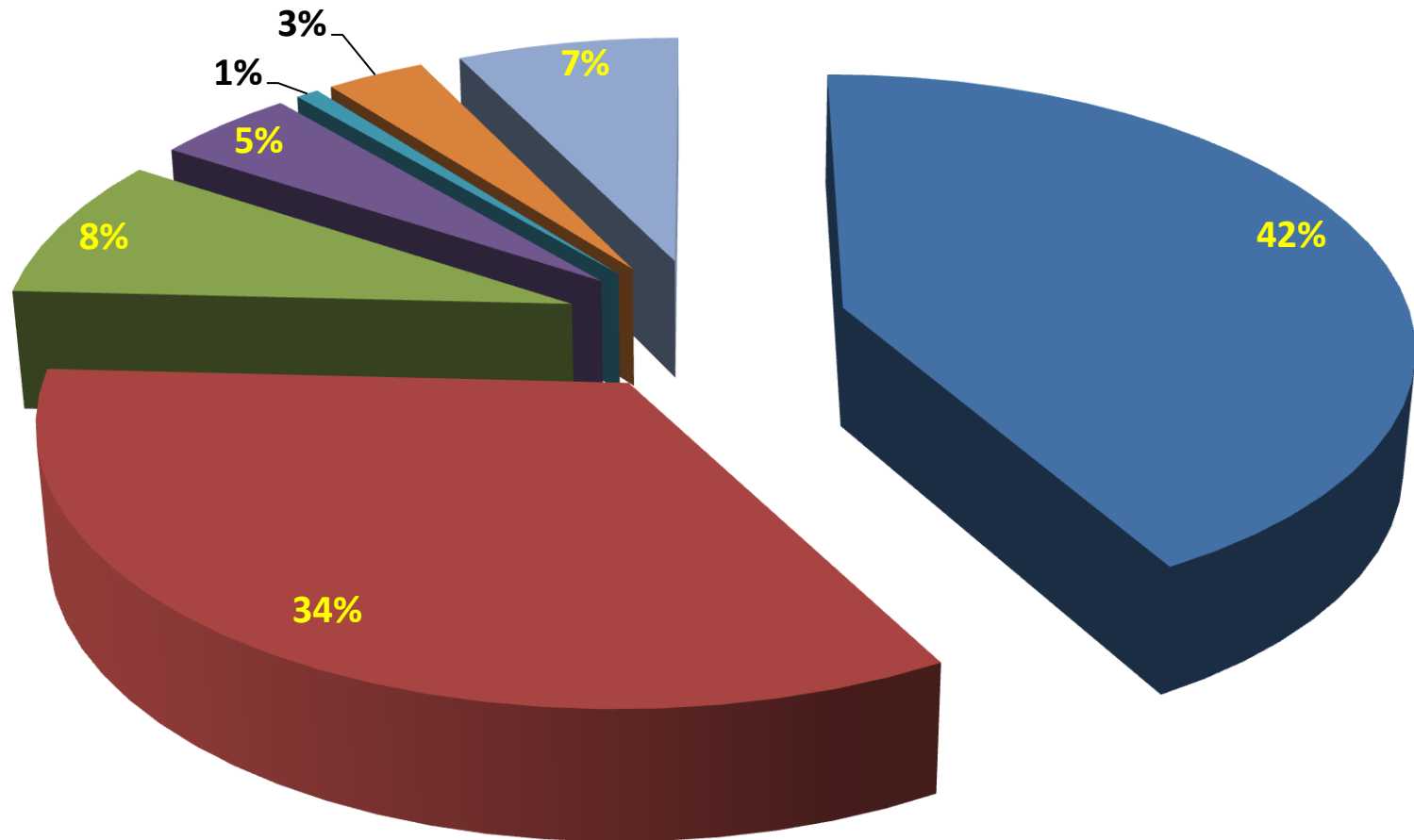
KSWebIZ Interface Work

- Established
  - KIPHS, Insight, Office Practicum
    - 57 providers
- Working with KHIN, LACIE
  - HIEs

What is Meaningful Use

- Financial incentive
- Through use of certified EHR
- End goal:
  - Incentive ($$)
  - Reduction medical errors
- Prominent theme
  - EHR, incentive, payment

Achieving Meaningful Use

2015

2013

2011

2009

HITECH
Policies

Phase 1
(Capture/share
data)

Phase 2
(Advanced
care
processes
with decision
support)

Phase 3
(Improved
Outcomes)
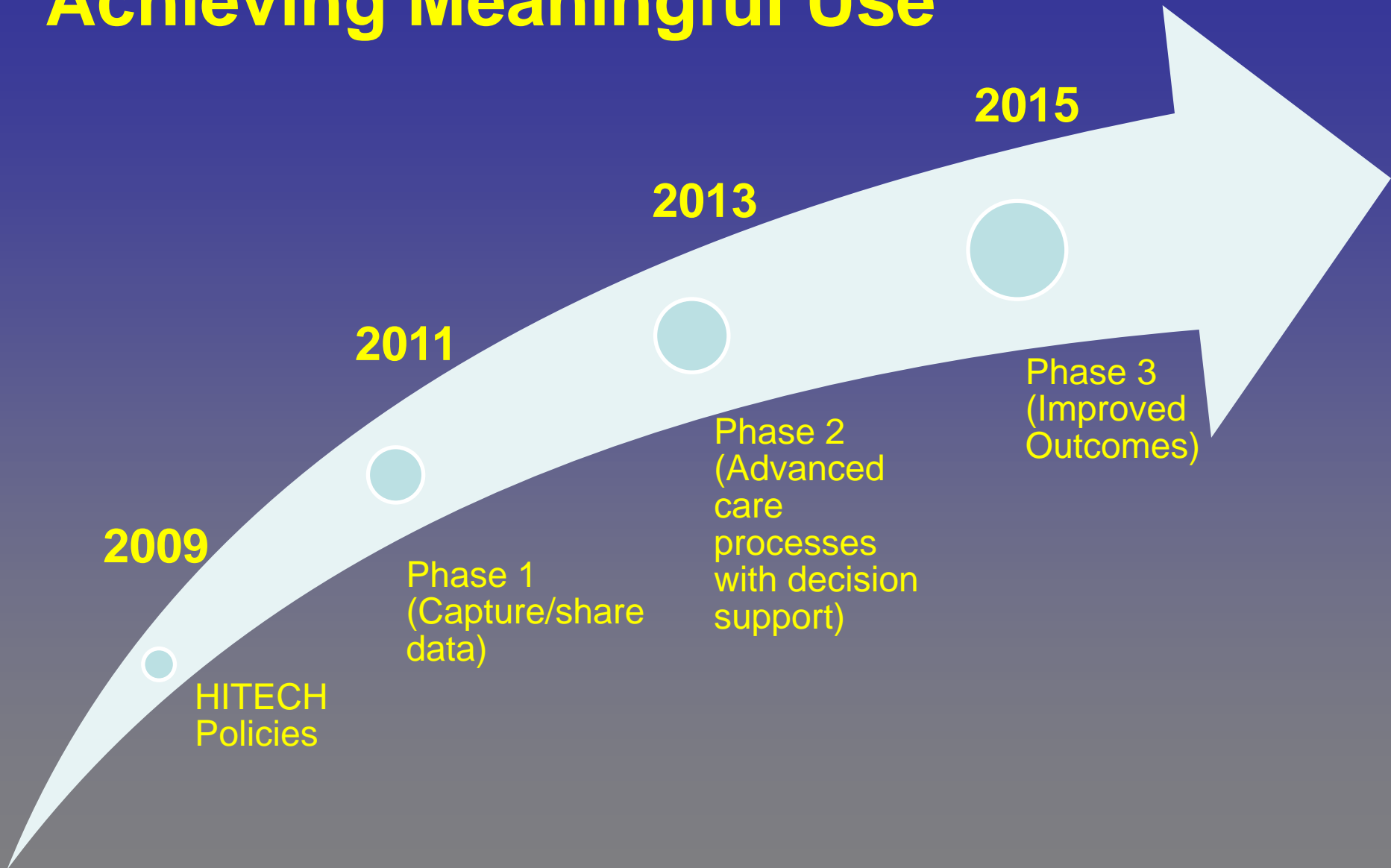
Why Submit to an Immunization Information System?

- Objective: health outcomes policy priority
- Specifically – Improving population and public health
- Care goal: patient's health care team communicates with public health agencies
- Other public health criteria:
  – Syndromic surveillance
  – Reportable lab results

However….

- State of Kansas allowing EPs & EHs to attest 'exclusion'
- Resources diverted to building interfaces with Kansas HIEs:
  - KHIN
  - LACIE
- Individual interface building will resume after HIE interfaces established

MU
Provider

HIE Provider ???

???

HIE Provider

CDA, ???

Health Information Exchange A

Health Information Exchange B

HL7 2.3.1
VXQ/VXU

HL7 2.3.1
VXQ/VXU

Bidirectional
HL7
Provider

HL7 2.3.1
VXQ/VXU

Kansas IIS

KDHE

Bidirectional
HL7
Provider
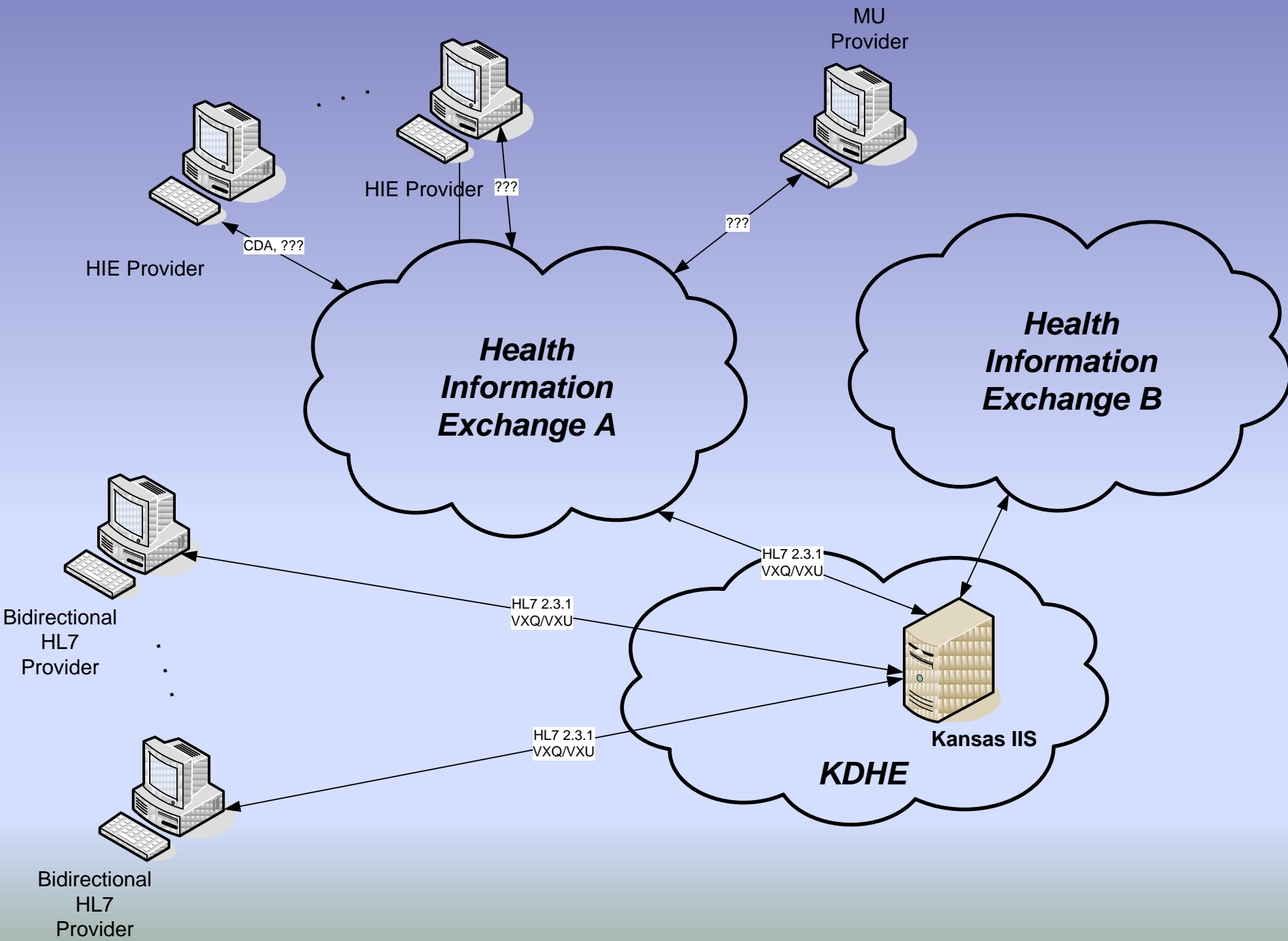
KSWebIZ Future Goals

- Maintain a high level of data quality
- Comply with NVAC approved standards
- Two or more immunizations for 95% of Kansas children less than six years of age
- Work with state-wide HIE effort
- Meaningful Use

Remainder of 2011

- Finalize interface for pharmacy immunization data
- Continue recruiting providers
  - Also looking at non-VFC providers
- Develop interface with 1 school system
- Maintain KWIC interface
- Pre-recorded trainings via KS Train

2011 continued…

- Assess the growth and quality of KSWebIZ data and improve adherence to 12 Functional Standards.
  - Measure registry participation by geographic area.
    - Develop a GIS report for public access that displays by county the percentage of children <6 years with 2 or more immunizations.
  - Maintain potential duplicate patient records to < 1% of full database.
  - Refine method to detect and resolve potential duplicate vaccines (within 5-7 days of each other).

Goals for 2012

- Achieve 95% of children <6 years with 2 more immunizations in IIS.

- Continue to enroll and retain provider sites
  - Interface
  - Direct Entry

- Continue to enroll school nurses

- Develop and implement interface with IHS system

- Finalize opt-in/opt-out for Direct entry

2012 continued…

- Continue to assess the growth and quality of KSWebIZ data and improve adherence to 12 Functional Standards.

- Implement mechanism for online vaccine ordering within IIS (Vaccine Ordering Module)

- Investigate options for an interface between KSWebIZ and CLARIS (the state childcare database).

2012 continued…

- Develop interface with new CDC vaccine ordering system (VTrackS)
- Develop Billing Module
- Continue to facilitate HEDIS reporting

Accomplishments 2011

- .NET conversion
  - Data security
    - Reminder/safeguards/error-trapping
      - Zip code lookup
      - Cannot have future dates
  - Help Desk can put attachments on announcements page so watch for administrative messages
  - CDC link in recommender
  - History of varicella

Accomplishments 2011

- Duplicates at < 1%
- Over 2M administered vaccinations (up by over 50%)
- Online training for school nurses
- KSWebIZ recognized and published for applying recommended best practices for data quality measures. Yeah Niki!
- NIC presentations

Issues Being Addressed

- Recommender issues
- Big reports causing system to slow down
- Production log entries

Tips and Tricks

- Printing Vaccine Information Statements
- Completing a Vaccine Adverse Event Reporting System
- Not Otherwise Specified (NOS) is now Unspecified Formulation (UF)

…Tips and Tricks

- Inventory
  - Transferring vaccine to providers who are not direct entry
  - Reconciliation: When in Doubt, Call Us!
  - Printer icon on reconciliation page only refers to that reconciliation time period
  - Adjustment reason 'reconciliation' translates to unaccounted for vaccine
  - Add inventory when received
  - Expire your vaccines in timely manner

…Tips and Tricks

- Inventory
  - Backdating – don't do it!
  - Do your reconciliation from your reconciliation report – not from the on-hand screen.
  - Ramifications:
    - Recalled vaccine
    - Paying for unaccounted for vaccine
    - Falsifying medical records
    - Validity of patient records

Questions?